FOR MYSORE STATE

'195) Department.

G.O. NO. 247c

2478 p.5

Dated

The Mangalore Electric Supply Company, Limited

MANAGING AGENTS:
Octavius Steel & Co., Ltd.,
CALCUTTA.

Chief Resident Engineer's Of
POST BOX NO. 78
Mangalore 1.

Ref. No. MAN/ 1205/67 *Dated* 6th June, 55

Office of the Chief Engineer to Government
10 JUN 1955
Section
No. 2644

13322

The Secretary to the Government
of Madras, P.W.D.,
Fort St. George,
Madras.

Through -
The Chief Electrical Inspector
to Government,
157, Mount Road,
Madras-2.

Dear Sir, Sub: ELECTRICITY - "Multiple Earth System" - Relaxation of Rule 58 of Indian Electricity Rules, 1937.

In this Undertaking, so long, it has been the practice to earth the neutral conductor of the L.T. 3 phase 4 Wire system at one point only, nemely, the star point of the secondary side of the transformer, which is the source of supply.

2. It is now proposed to convert the above method of construction to "Multiple Earth" system whereby considerable economy could be effected as the use of one continuous earth wire (7/16 or No. 8 G.I. Wire) as well as insulators for the neutral conductors will be eliminated. Also, this will be in accordance with Rule No. 64 under the Draft Indian Electricity Rules, 1951.

3. I request you, therefore, to kindly relax the provisions of Rule 58 of Indian Electricity Rules, 1937, and accord your sanction for the adoption of the multiple earth system for a period of seven years.

Mangalore undertaking will bear entire Cost. on 1-12-55

Yours faithfully,

Chief Engineer. 9-6-55

Office of the Chief Electrical Inspector
to Government,157,Mount Road,Madras-2.

Endorsement No.2644 L/55-1 dated 16-6-1955.

Sub: Electricity - Mangalore Electric Supply Co.,Ltd.,
Multiple earth system - regarding.
Ref: Letter No.MAN/1205/67 dated 6-6-55 from Mangalore
Electric Supply Co.Ltd., to The Secretary to Government
Public Works Department,Madras Through The Chief
Electrical Inspector to Government,Madras-2.

52025.

ASST. SECRETARY TO GOVERNMENT
5/2025
21 JUN 1955
PUBLIC WORKS DEPARTMENT

-:-

Forwarded to the Secretary to Government,Public Works Department,Madras-9.

2. I recommend that the Mangalore Electric Supply Co.Ltd., may please be permitted to use the multiple earthed neutral system in the case of all future constructions subject to the following conditions:-

(1) The neutrals shall be insulated in accordance with rule 58(a) of Indian Electricity Rules 1937 within six months of advice being given by the Chief Electrical Inspector to Government.

(2) The particular areas in which earthed neutrals are to be used shall be approved by Chief Electrical Inspector to Government.

(3) The use of such neutrals shall in no way prejudice any underground structures local telephone or telegraph communications or the utility of any system of protection installed.

(4) The multiple earthed neutral shall be in no case be of less conductivity than a phase conductor in the case of single phase lines and two thirds in the case of polyphase

Chief Electrical Inspector
Government.

tsv.16-6-55.

To

The Secretary to Government,
Public Works Department,
Fort St.,George,
Madras-9.

Electricity - Mangalore Electric Supply Co. Ltd. - Adoption of multiple earthed neutral system - Indian Elecy. Rules 1937 - Rule 58(a) - Relaxed.

Read: From the Mangalore Electric Supply Co. Ltd. Ref. No. MAN/1205/E dt. 6-6-55.

From the Chief. Engr. No. 2644-L/55 dt. 16-6-55.

G.O. Ms. No. 2478 dt. 29-6-55.

In exercise of the powers conferred by rule 112(1) of the Indian Electricity Rules 1937, the Governor of Madras hereby directs that the provisions of rule 58(a) of the said rules be relaxed in respect of the Mangalore Electric Supply Co. Ltd., Mangalore and that the Company be permitted to adopt multiple earthed neutral System subject to the following conditions:-

(i) that the neutrals are insulated in accordance with rule 58(a) of the Indian Elecy. Rules, 1937, within six months of advice being given by the Chief Electrical Inspector to Government

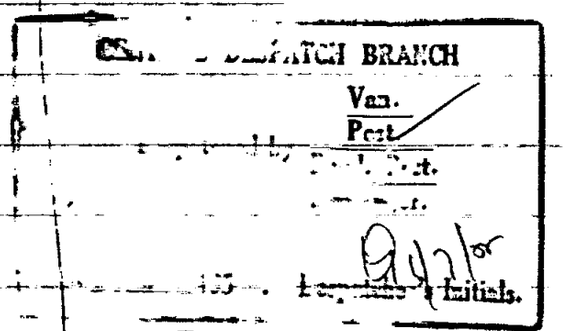
(ii) that the particular areas in which earthed neutrals are used are approved by the Chief Elecl. Inspr. to Govt.;

(iii) that the use of such neutrals in no way prejudices any underground structures, local telephone or telegraph

communications over the utility of any system of protection installed; and

(iv) that the multiple earthed neutral is in no case of less conductivity than a phase conductor in the case of single phase lines and two thirds in the case of 3-phase lines.

p 4 cf.



To:

The Mangalore Electricity Supply Co. Ltd., P.B. No. 78, Mangalore-1.

25.8.55 — 27.8.55

Note: Please see the letter from the Mangalore and note on p. 1 cf., of the Encl. of the C.E.'s. file pp 3 to cf. The draft order above is subm approval. It is noted in this connection the Mangalore electrical undertaking will vest in the state Govt. on 31-12-55 under the Supply Act.